



STIC Search Report

EIC 3600

STIC Database Tracking Number: 107708

**To: Tom Beach
Location: 3B49
Art Unit: 3600
Wednesday, May 24, 2006**

Case Serial Number: 09/659382

**From: Etelka R. Griffin
Location: EIC 3600
KNOX/4B68
Phone: 571-272-4230**


Etelka.griffin@uspto.gov

Search Notes

LITIGATION-5802748

Searches completed on the following databases:

**LEXIS/NEXIS
QUESTEL/ORBIT
`COURTLINK**

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#) 
Terms: **patno=5802748** ([Edit Search](#) | [Suggest Terms for My Search](#))

679851 (08) 5802748 September 8, 1998

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5802748

[♦ Get Drawing Sheet 1 of 3](#)

[Access PDF of Official Patent *](#)

[Check for Patent Family Report PDF availability *](#)

* Note: A transactional charge will be incurred for downloading an Official Patent or Patent Family Report. Your acceptance of this charge occurs in a later step in your session. The transactional charge for downloading is outside of customer subscriptions; it is not included in any flat rate packages.

[Order Patent File History / Wrapper from REEDFAX®](#)
[Link to Claims Section](#)

September 8, 1998

Tiered trenching backhoe system

REISSUE: September 8, 2000 - Reissue Application filed Ex. Gp.: 3625; Re. S.N. 09/659,382 (O.G. October 15, 2002)

APPL-NO: 679851 (08)


FILED-DATE: July 15, 1996

GRANTED-DATE: September 8, 1998

CORE TERMS: syncline, fluke, triangular, coupler, welded, removably, prior art, trihedral, interior, projecting ...

ENGLISH-ABST:

A new Tiered Trenching Backhoe System for creating a dual tiered trench which allows one service utility to be elevated above another service utility thereby preventing contact of the two service utilities resulting in increased safety. The inventive device includes a syncline plate with an interior angle of approximately 140 degrees, a first and second triangular coupler welded at one end to the syncline plate removably coupling to a pair of existing tooth shanks of a backhoe bucket, a first and second fluke welded to the syncline plate opposite of the triangular couplers, a first and second trihedral support members welded to the interior portion of syncline plate providing support, and a pair of replaceable teeth removably secured to the first and second flukes.

Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#) 

Terms: **patno=5802748** ([Edit Search](#) | [Suggest Terms for My Search](#))

View: **Custom**

Segments: Abst, Assignee, English-abst, Reissue

Date/Time: Wednesday, May 24, 2006 - 11:59 AM EDT

LexisNexis® Total Research System[Switch Client](#) | [Preferences](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
[My Lexis™](#) | [Search](#) | [Research Tasks](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's®](#) | [Alerts](#) | [History](#) | [Help](#)
[Sources](#) | [Guided Search Forms](#) | [Command Searching](#)
[Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Legal News](#) > **Patent, Trademark & Copyright Periodicals, Combined**

Enter Search Terms

☒ Terms and Connectors
 ☐ Natural Language
 ☐ Easy Search

5802748 or 5,802,748

[Suggest Terms
for My Search](#)
Search[Check Spelling](#)**Restrict by Segment:**

Select a segment, enter search terms for the segment, then click Add.

Note: Segment availability differs between sources. Segments may not be applied consistently across sources.

Restrict by Date:
☒ No Date Restrictions
 ☐ From To [Date Formats...](#)
Search Con

Use connectors between search connector for de connector to ad

Syntax Def

and	and
or	or
w/N	withi
not w/N	not v
pre /N	prec
w/p	in se
not w/p	not i
w/seg	in se
not w/seg	not i
w/s	in se
not w/s	not i
and not	and
	View

[My Lexis™](#) | [Search](#) | [Research Tasks](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's®](#) | [Alerts](#)
[History](#) | [Delivery Manager](#) | [Switch Client](#) | [Preferences](#) | [Feedback](#) | [Sign Off](#) | [Help](#)
**LexisNexis®**[About LexisNexis](#) | [Terms & Conditions](#)

Copyright © 2006 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

No Documents Found!

No documents were found for your search terms

"5802748 or 5,802,748"

Click "Save this search as an Alert" to schedule your search to run in the future.

- OR -

Click "Edit Search" to return to the search form and modify your search.

Suggestions:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms, such as those listed in "Suggested Words and Concepts"
- Use a less restrictive date range.

 [Save this Search as an Alert](#)

[Edit Search](#)



LexisNexis®

[About LexisNexis](#) | [Terms & Conditions](#)

[Copyright ©](#) 2006 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

LexisNexis® Total Research System[Switch Client](#) | [Preferences](#) | [Feedback](#) | [Sign Off](#) | [Help](#)[My Lexis™](#)[Search](#)[Research Tasks](#)[Search Advisor](#)[Get a Document](#)[Shepard's®](#)[Alerts](#)[History](#)[Sources](#)[Guided Search Forms](#)[Command Searching](#)[Legal > Area of Law - By Topic > Patent Law > Multi-Source Groups > Patent Cases from Federal Courts and Administrative Materials](#)**Enter Search Terms**☒ **Terms and Connectors**☐ **Natural Language**☐ **Easy Search**

5802748 or 5,802,748

[Suggest Terms
for My Search](#)[Search](#)[Check Spelling](#)**Search Con**

Use connectors between search connector for de connector to ad

Suggested Words and Concepts for Entered Terms:

five-tenth	Commerce Department	rose	victory
inning	economy	decline	economist
increase	inflation	shot	fell
inventory	quarter	restaurant	scored
New York	engine	game	played
playoff	price	Labor Department	host

Syntax	Def
and	and
or	or
w/N	withi
not w/N	not v
pre /N	prec
w/p	in se
not w/p	not i
w/seg	in se
not w/seg	not i
w/s	in se
not w/s	not i
and not	and
	View

Restrict by Segment:

Select a segment, enter search terms for the segment, then click Add.

Select a Segment

Add 1

Note: Segment availability differs between sources. Segments may not be applied consistently across sources.

Restrict by Date:☒ **No Date Restrictions**☐

From

To

[Date Formats...](#)[My Lexis™](#) | [Search](#) | [Research Tasks](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's®](#) | [Alerts](#)[History](#) | [Delivery Manager](#) | [Switch Client](#) | [Preferences](#) | [Feedback](#) | [Sign Off](#) | [Help](#)**LexisNexis®**[About LexisNexis](#) | [Terms & Conditions](#)

Copyright © 2006 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

No Documents Found!

No documents were found for your search terms

"5802748 or 5,802,748"

Click "Save this search as an Alert" to schedule your search to run in the future.

- OR -

Click "Edit Search" to return to the search form and modify your search.

Suggestions:

- Check for spelling errors.
- Remove some search terms.
- Use more common search terms, such as those listed in "Suggested Words and Concepts"
- Use a less restrictive date range.

 Save this Search as an Alert

Edit Search



LexisNexis®

[About LexisNexis](#) | [Terms & Conditions](#)

[Copyright ©](#) 2006 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

[Order Documents](#) : [Available Courts](#) : [Total Litigator](#) : [Lexis.com](#) | [Sign Out](#) | [Learning Center](#)

LexisNexis[®] CourtLink[™]

Welcome Etelka Griffin!

[My CourtLink](#) [Search](#) [Dockets & Documents](#) [Track](#) [Alert](#) [Strategic Profiles](#) [My Account](#)



[Search](#) > [Patent Search](#) > Searching

Patent Search - Number: 5802748

No cases found.

[Return to Search](#)

(Charges for search still apply)

[Pricing](#) [Privacy](#) [Master Services Agreement](#)

Copyright © 2006 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

Query/Command : PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

Patent Number :

US5802748 A 19980908 [US5802748]

Title :

(A) Tiered trenching backhoe system

Inventor(s) :

(A) HAAGENSTAD RONALD G (US)

Application Nbr :

US67985196 19960715 [1996US-0679851]

Priority Details :

US67985196 19960715 [1996US-0679851]

Intl Patent Class :

(A) E02F-003/96

IPC Advanced All :

E02F-003/96 [2006-01 A - I R M EP]; E02F-009/28 [2006-01 A - I R M EP]

IPC Core All :

E02F-003/04 [2006 C - I R M EP]; E02F-009/28 [2006 C - I R M EP]

EPO ECLA Class :

E02F-003/96

E02F-009/28A2

EPO ICO Class :

P02F-009/28K

US Patent Class :

ORIGINAL (O) : 037405000; CROSS-REFERENCE (X) : 037403000 037903000
414724000

Document Type :

Corresponding document

Citations :

US2838856; US2864184; US2896343; US3181256; US3307277; US3478449;
US3942271; US4009529; US4038766; US4085530; US4360980; US4550512;
US4704811; US5212897

Publication Stage :

(A) United States patent

Abstract :

A new Tiered Trenching Backhoe System for creating a dual tiered trench which allows one service utility to be elevated above another service utility thereby preventing contact of the two service utilities resulting in increased safety. The inventive device includes a syncline plate with an interior angle of approximately 140 degrees, a first and second triangular coupler welded at one end to the syncline plate removably coupling to a pair of existing tooth shanks of a backhoe bucket, a first and second fluke welded to the syncline plate opposite of the triangular couplers, a first and second trihedral support members welded to the interior portion of syncline plate providing support, and a pair of replaceable teeth removably secured to the first and second flukes.

1 / 1 LGST - @EPO

Patent Number :

US5802748 A 19980908 [US5802748]

Application Number :

US67985196 19960715 [1996US-0679851]

Action Taken :

20021015 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20000908

Update Code :
2003-22

1 / 1 CRXX - @CLAIMS/RRX

Patent Number :

5,802,748 A 19980908 [US5802748]

Patent Assignee :

Haagenstad, Ronald G

Actions :

20000908 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20021015

REISSUE REQUEST NUMBER: 09/659382

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3625

Reissue Patent Number:

1 / 1 INPADOC - @INPADOC

Patent Number :

US 5802748 A 19980908 [US5802748]

Title :

TIERED TRENCHING BACKHOE SYSTEM

Inventor(s) :

HAAGENSTAD RONALD G [US]

Patent Assignee (Words) :

HAAGENSTAD RONALD G [US]

Application Details :

US 679851/96-A 19960715 [1996US-0679851]

Priority Details :

US 679851/96-A 19960715 [1996US-0679851]

Intl. Patent Class. :

E02F-003/96

WPI Cross Reference :

1998-504961 (G)

1 / 1 LGST - @EPO

Patent Number :

US5802748 A 19980908 [US5802748]

Application Number :

US67985196 19960715 [1996US-0679851]

Action Taken :

20021015 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20000908

Update Code :

2003-22